Retrofits: Lessons Learned in the Field



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AQMD Technology Demonstration Programs

- #Extensive experience with retrofit demonstration programs
- ****Locomotive retrofit demonstration** program similar to other demonstration programs
 - Off-road equipment Showcase Program
- **#Technology transfer to locomotives**

What Makes a Successful Demonstration Program?

- **#**Agreement on program objectives
 - Multiple organizations
 - Communication and coordination
- **#Understand the challenges of demonstration programs**
 - Often involves complex design, fabrication, and installation issues
 - Can involve multiple iterations
 - ☑ Design, testing, re-design, re-testing, etc., then field demonstration

What Makes a Successful Demonstration Program?

- **Commitment to work with prototype** control equipment.
 - Involves downtime for design and installation of prototype equipment
 - Time to train and get feedback from operators
 - Downtime from unexpected breakdown of and modifications to prototype equipment

What Makes a Successful Demonstration Program?

- Recognize and best account for the priorities of the organizations involved
- ****Committed partners guarantee best chance of success**